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Proposal of a M2M (Machine to Machine) system using wireless LAN models of V9 series

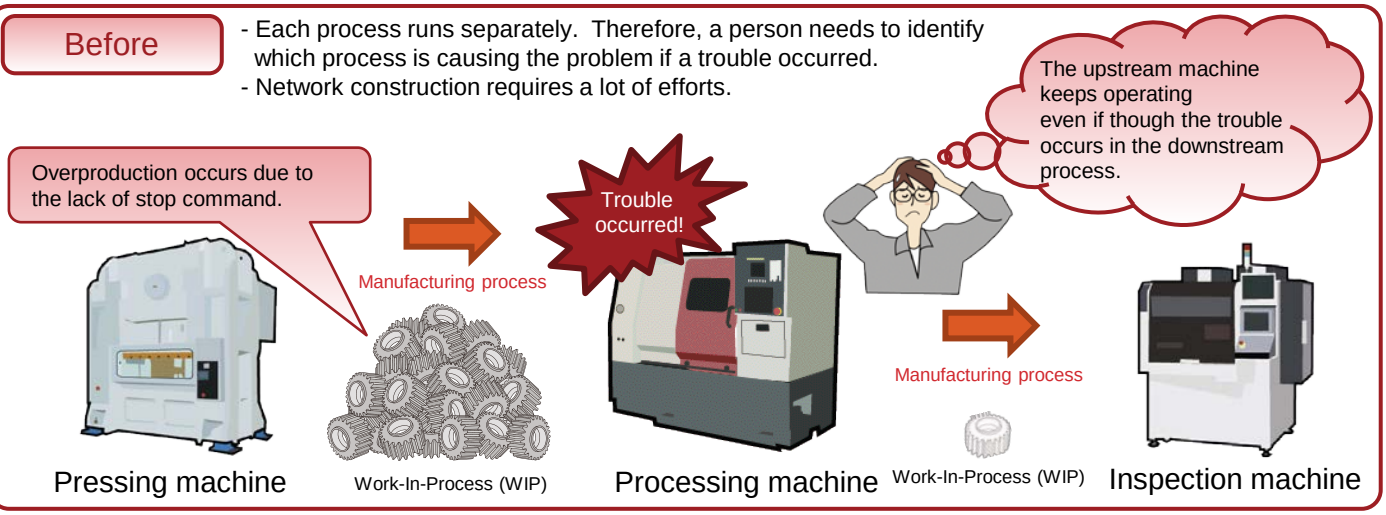
Issue No. 95
July 2017

With wireless LAN models of V9 series, communication between the HMIs is easily possible.
Since wireless LAN models support both access point and station modes, there is no need to install external access points.
Installing a V9 on each machine enables sharing of data among the machines (M2M).

System proposal

Before

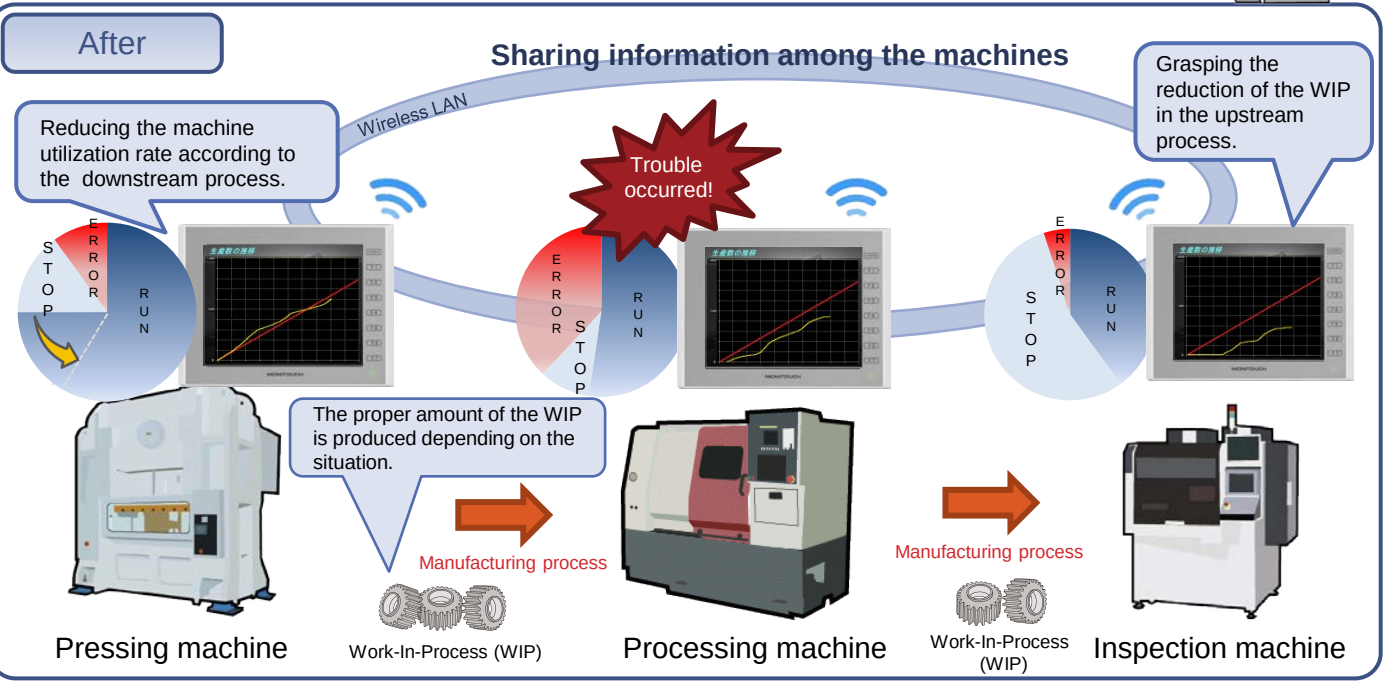
- Each process runs separately. Therefore, a person needs to identify which process is causing the problem if a trouble occurred.
- Network construction requires a lot of efforts.



Replace the machine monitors with Monitouch V9 series (Wireless LAN models).

It is possible to manufacture only required amounts because the situation of other machines can be grasped.

After



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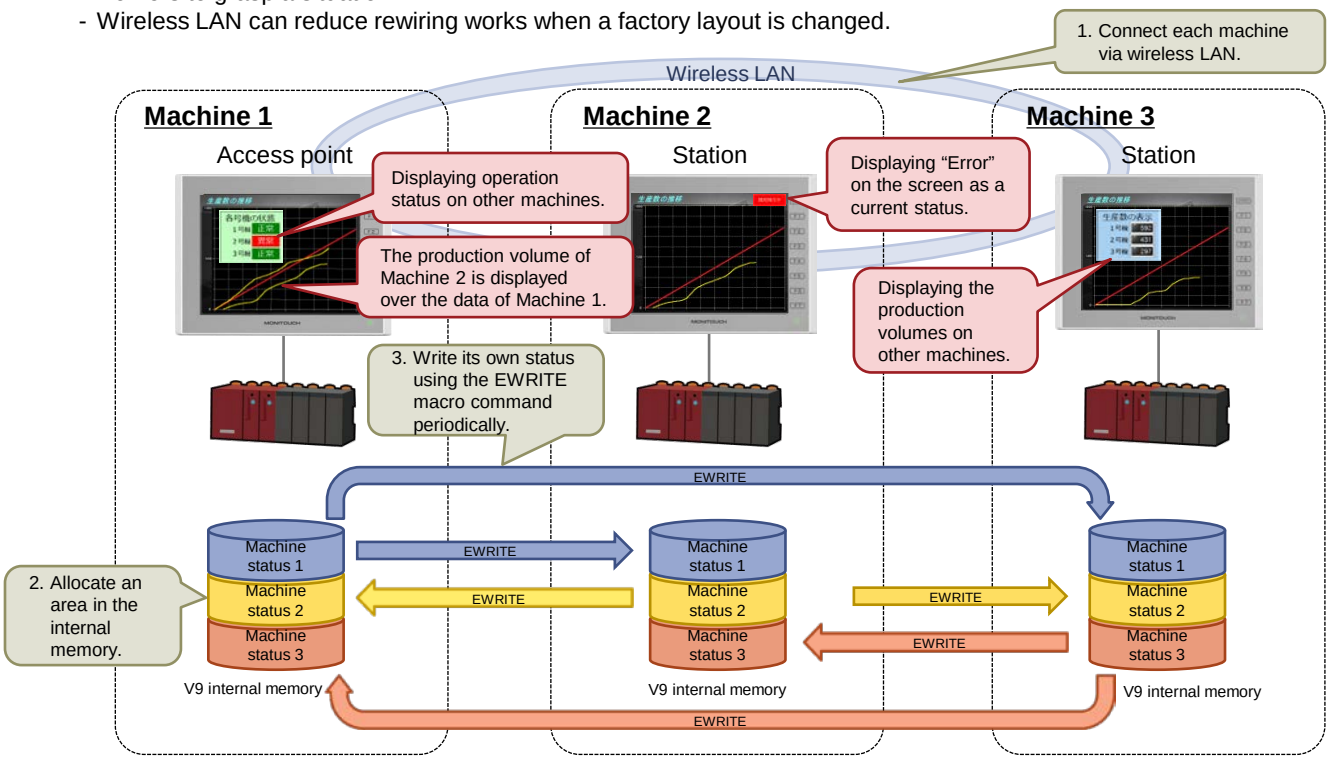
Proposed system & Advantages

Proposed system

1. Connect the stations (Machine 2 and Machine 3) to the machine 1 which has built-in access point by using wireless LAN.
2. Allocate an area in the internal memory ($u etc.) of each V9 unit to write the status of other machines.
3. Periodically write its own status to the internal memory of other machines.
   (The “EWRITE” macro command allows a data to be written to the connected V9 internal memory.)

Advantages

- Displaying information of other machine, such as operation status, abnormalities and production volumes, allows workers to grasp a situation.
- Wireless LAN can reduce rewiring works when a factory layout is changed.



V9 series wireless LAN model

Model	Display Size	Resolution	Touch Switch	Wireless LAN	Cable LAN	Power
V9101iWRLD	10.1” widescreen	1024*600	Capacitance	1CH	2CH	DC
V9100iWRLD			Analog resistive			
V9071iWRLD	7.0” widescreen	800*480	Capacitance			
V9070iWRLD			Analog resistive			

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